

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 19 of 19 returned.**☐ 1. Document ID: US 20030073604 A1

L3: Entry 1 of 19

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030073604

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030073604 A1

TITLE: Detergent product

PUBLICATION-DATE: April 17, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McGoff, Matthew Grady	Cincinnati	OH	US	
Tantawy, Hossam Hassan	Morpeth		GB	
Howard, Phillip Jan	Consett		GB	

US-CL-CURRENT: [510/441](#); [510/446](#), [510/475](#), [510/530](#)

## ABSTRACT:

The present invention relates to a water-soluble and/or a water-dispersible particle having: a mean particle diameter of less than 20 mm, preferably less than 2 mm; a hardness (H) of 500 MPa or less, when measured at a temperature of 20.degree. C., a relative humidity of 40%; and a fracture toughness (Kc) of 0.04 MPa.m.sup.1/2 or greater, when measured at a temperature of 20.degree. C., a relative humidity of 40% and a strain rate of from 1.times.10.sup.-4 to 1.times.10.sup.4 s.sup.-1, said particle comprises an active ingredient and a matrix suitable for delivering said active ingredient to an aqueous environment, said particle is not freeze dried.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc											

☐ 2. Document ID: US 20030017959 A1

L3: Entry 2 of 19

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017959

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017959 A1

TITLE: Detergent particle

PUBLICATION-DATE: January 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Baeck, Andre Cesar	Bonheiden		BE	
Tantawy, Hossam Hassan	Morpeth		GB	
Verschuere, Ann Katrien Marie Agnes	Drongen		BE	

US-CL-CURRENT: 510/445; 510/446

## ABSTRACT:

The present invention relates to a water-soluble and/or water-dispersible particle comprising an active ingredient uniformly dispersed, preferably an enzyme, in a matrix comprising from 20-95% by weight of the particle of polyvinyl alcohol of a molecular weight of 10-30K daltons. The present invention further relates to a process to obtain a particle, to a detergent composition comprising the particle and to the use of particle to minimize, reduce or prevent the generation of dust while providing excellent cleaning on enzyme sensitive stains and soils and on particulate stains, improved thermostability and fabric softness performance.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc											

☐ 3. Document ID: US 20030017575 A1

L3: Entry 3 of 19

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017575

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017575 A1

TITLE: Cell-wall degrading enzyme variants

PUBLICATION-DATE: January 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Schroder Glad, Sanne O.	Ballerup		DK	
Andersen, Carsten	Vaerlose		DK	
Schulein, Martin	Copenhagen		DK	
Dela, Hanne	Copenhagen		DK	
Frandsen, Torben Peter	Frederiksberg		DK	

US-CL-CURRENT: 435/232; 435/101, 435/320.1, 435/325, 435/69.1, 536/23.2

## ABSTRACT:

A variant of a cell-wall degrading enzyme having a beta-helix structure, which variant holds at least one substituent in a position determined by identifying all residues potentially belonging to a stack; characterizing the stack as interior or exterior; characterizing the stack as polar, hydrophobic or aromatic/heteroaromatic based on the dominating characteristics of the parent or wild-type enzyme stack residues and/or its orientation relative to the beta-helix (interior or exterior); optimizing all stack positions of a stack either to hydrophobic aliphatic amino acids, hydrophobic aromatic or polar amino acids by allowing mutations within one or all positions to amino acids belonging to one of these groups; measuring thermostability of the variants by DSC or an application-related assay such as a Pad-Steam application test; and selecting the stabilized variants. Variant of a wild-type parent pectate lyase (EC 4.2.2.2) having the conserved amino acid residues

D111, D141 or E141, D145, K165, R194 and R199 when aligned with the pectate lyase comprising the amino acid sequence of SEQ ID NO: 2 are preferred.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw Desc											

☐ 4. Document ID: US 20020123445 A1

L3: Entry 4 of 19

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020123445  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020123445 A1

TITLE: Stability enhancing formulation components, compositions and laundry methods employing same

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dykstra, Robert Richard	Cleves	OH	US	
Gustwiller, Marc Eric	Cincinnati	OH	US	
Howard, Tonya Ann	South Lebanon	OH	US	

US-CL-CURRENT: 510/302; 510/309, 510/375, 510/499

ABSTRACT:

Novel bleaching compositions comprising organic catalyst compounds, preferably branched organic catalyst compounds, and an anionic surfactant, methods for laundering fabrics using such bleaching compositions, and laundry additive products containing such bleaching compositions are provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 5. Document ID: US 20020037824 A1

L3: Entry 5 of 19

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020037824  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020037824 A1

TITLE: Detergent compositions comprising a maltogenic alpha-amylase enzyme and a detergent ingredient

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Smets, Johan	Lubbeek		BE	
Pintens, An	Merksem		BE	

US-CL-CURRENT: [510/305](#); [510/306](#), [510/313](#), [510/392](#)

## ABSTRACT:

The present invention relates to detergent compositions, including laundry, dishwashing, and/or hard surface cleaner compositions, comprising a maltogenic alpha-amylase enzyme and a detergent ingredient selected from the group consisting of a nonionic surfactant, a protease, a bleaching agent and/or mixtures thereof. Such compositions provide excellent removal of starch-containing stains and soils, and when formulated as laundry compositions, excellent whiteness maintenance and dingy cleaning.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 6. Document ID: US 20020032142 A1

L3: Entry 6 of 19

File: PGPB

Mar 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020032142

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020032142 A1

TITLE: Detergent compositions comprising a cyclodextrin glucanotransferase enzyme and a detergent ingredient

PUBLICATION-DATE: March 14, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Smets, Johan	Lubbeek		BE	
Pintens, An	Merksem		BE	

US-CL-CURRENT: [510/305](#); [510/311](#), [510/312](#), [510/392](#)

## ABSTRACT:

The present invention relates to detergent compositions, including laundry, dishwashing, and/or hard surface cleaner compositions, comprising a cyclodextrin glucanotransferase enzyme and a detergent ingredient selected from a nonionic surfactant, a protease and/or a bleaching agent. Such compositions provide excellent removal of starch-containing stains and soils and malodor control; and when formulated as laundry compositions, excellent whiteness maintenance and dingy cleaning.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 7. Document ID: US 20010014659 A1

L3: Entry 7 of 19

File: PGPB

Aug 16, 2001

PGPUB-DOCUMENT-NUMBER: 20010014659

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010014659 A1

TITLE: LAUNDRY AND CLEANING COMPOSITIONS CONTAINING XYLOGLUCANASE ENZYMES

PUBLICATION-DATE: August 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
CONVENTS, ANDRE CHRISTIAN	CINCINNATI	OH	US	
MOESE, ROSA LAURA	WEST CHESTER	OH	US	

US-CL-CURRENT: 510/392; 134/42, 435/209, 510/226, 510/308, 510/309, 510/310, 510/393, 510/530, 8/137, 8/401

## ABSTRACT:

Laundry or cleaning products comprising one or more enzymes exhibiting endoglucanase activity specific for xyloglucan, and methods for laundering fabrics and cleaning dishes and tableware with aqueous solutions containing an effective amount of one or more enzymes exhibiting endoglucanase activity specific for xyloglucan.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	K/M/C
Draw Desc	Image									

☐ 8. Document ID: US 6613733 B1

L3: Entry 8 of 19

File: USPT

Sep 2, 2003

US-PAT-NO: 6613733

DOCUMENT-IDENTIFIER: US 6613733 B1

TITLE: Treating compositions comprising polysaccharides

DATE-ISSUED: September 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barnabas; Mary Vijayarani	West Chester	OH		
Smets; Johan	Lubeek			BE
Barnabas; Freddy Arthur	West Chester	OH		
Showell; Michael Stanford	Cincinnati	OH		

US-CL-CURRENT: 510/470; 510/276, 510/471, 510/473, 8/137

## ABSTRACT:

The present invention relates to treating compositions, preferably laundry and/or color care compositions comprising polysaccharides, and methods of using such compositions to provide improved color appearance and/or pill prevention and/or abrasion resistance and/or wrinkle resistance and/or shrinkage resistance benefits, while at the same time providing improved cleaning benefits, over laundry and/or fabric and/or color care compositions without such polysaccharides.

13 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 9. Document ID: US 6607902 B2

L3: Entry 9 of 19

File: USPT

Aug 19, 2003

US-PAT-NO: 6607902

DOCUMENT-IDENTIFIER: US 6607902 B2

TITLE: Cell-wall degrading enzyme variants

DATE-ISSUED: August 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE COUNTRY
Schr.o slashed.der Glad; Sanne O	Ballerup	DK
Andersen; Carsten	V.ae butted.rl.o slashed.se	DK
Schulein; Martin	late of Copenhagen	DK
Frandsen; Torben Peter	Frederiksberg	DK

US-CL-CURRENT: 435/232; 435/263, 435/264, 435/267, 510/300, 536/23.1, 536/23.2

## ABSTRACT:

A variant of a cell-wall degrading enzyme having a beta-helix structure, which variant holds at least one substituent in a position determined by identifying all residues potentially belonging to a stack; characterising the stack as interior or exterior; characterising the stack as polar, hydrophobic or aromatic/heteroaromatic based on the dominating characteristics of the parent or wild-type enzyme stack residues and/or its orientation relative to the beta-helix (interior or exterior); optimizing all stack positions of a stack either to hydrophobic aliphatic amino acids, hydrophobic aromatic or polar amino acids by allowing mutations within one or all positions to amino acids belonging to one of these groups; measuring thermostability of the variants by DSC or an application-related assay such as a Pad-Steam application test; and selecting the stabilized variants. Variant of a wild-type parent pectate lyase (EC 4.2.2.2) having the conserved amino acid residues D111, D141 or E141, D145, K165, R194 and R199 when aligned with the pectate lyase comprising the amino acid sequence of SEQ ID NO: 2 are preferred.

31 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 10. Document ID: US 6573234 B1

L3: Entry 10 of 19

File: USPT

Jun 3, 2003

US-PAT-NO: 6573234

DOCUMENT-IDENTIFIER: US 6573234 B1

TITLE: Liquid detergent compositions comprising polymeric suds enhancers

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sivik; Mark Robert	Mason	OH		
Kluesener; Bernard William	Harrison	OH		
Bodet; Jean-Francois	Mason	OH		
Scheper; William Michael	Lawrenceburg	IN		
Yeung; Dominic Wai-Kwing.	Mississauga			CA
Bergeron; Vance	Antony			FR

US-CL-CURRENT: 510/475

ABSTRACT:

The present invention relates to liquid detergent compositions comprising a polymeric material which is a suds enhancer and a suds volume extender, said compositions having increased effectiveness for preventing re-deposition of grease during hand washing. The polymeric material which are suitable as suds volume and suds endurance enhancers comprise an effective amount of a polymeric suds stabilizer comprise: i) units capable of having a cationic charge at a pH of from about 4 to about 12; provided that said suds stabilizer has an average cationic charge density of 2.77 or less units per 100 daltons molecular weight at a pH of from about 4 to about 12; b) an effective amount of a deterative surfactant; and c) the balance carriers and other adjunct ingredients;

provided that a 10% aqueous solution of said detergent composition has a pH of from about 4 to about 12.

positive or negative charge at a pH of from about 4 to about 12. Each R.sup.2 is independently hydrogen, hydroxy, amino, guanidino, C.sub.1 -C.sub.4 alkyl, or comprises a carbon chain which can be taken together with R, R.sup.1 any R.sup.2 units to form an aromatic or non-aromatic ring having from 5 to 10 carbon atoms wherein said ring may be a single ring or two fused rings, each ring being aromatic, non-aromatic, or mixtures thereof. When the amino acids according to the present invention comprise one or more rings incorporated into the amino acid backbone, then R, R.sup.1, and one or more R.sup.2 units will provide the necessary carbon-carbon bonds to accommodate the formation of said ring. Preferably when R is hydrogen, R.sup.1 is not hydrogen, and vice versa; preferably at least one R.sup.2 is hydrogen. The indices x and y are each independently from 0 to 2.

An example of an amino acid according to the present invention which contains a ring as part of the amino acid backbone is 2-aminobenzoic acid (anthranilic acid) having the formula: ##STR1##

wherein x is equal to 1, y is equal to 0 and R, R.sup.1, and 2 R.sup.2 units from the same carbon atom are taken together to form a benzene ring.

4 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RMIC

☐ 11. Document ID: US 6528476 B1

L3: Entry 11 of 19

File: USPT

Mar 4, 2003

US-PAT-NO: 6528476

DOCUMENT-IDENTIFIER: US 6528476 B1

TITLE: Liquid detergent compositions comprising block polymeric suds enhancers

DATE-ISSUED: March 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bodet; Jean-Francois	Mason	OH		
Sivik; Mark Robert	Mason	OH		
Kluesener; Bernard William	Harrison	OH		
Scheper; William Michael	Lawrencburg	IN		
Yeung; Dominic Wai-Kwing	Mississauga			CA
Bergeron; Vance	Antony			FR

US-CL-CURRENT: 510/476; 510/235, 510/475

## ABSTRACT:

The present invention relates to liquid detergent compositions comprising one or more block polymeric suds volume and suds duration enhancers. The block polymeric suds enhancers (suds boosters) suitable for use in the compositions of the present invention comprise one or more cationic block units and optionally one or more additional building blocks such as hydroxyl-containing units, hydrophobic group-containing units, hydrophilic group-containing units, anionic units, other cationic units, hydrogen-bonding units and zwitterionic units. The present invention further relates to methods for providing enhanced suds volume and suds duration during hand washing.

5 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 12. Document ID: US 6503876 B1

L3: Entry 12 of 19

File: USPT

Jan 7, 2003

US-PAT-NO: 6503876

DOCUMENT-IDENTIFIER: US 6503876 B1

TITLE: Stable non-aqueous liquid laundry detergents comprising low density particles

DATE-ISSUED: January 7, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Broeckx; Walter August Maria	Zelee			BE

US-CL-CURRENT: 510/349; 510/302, 510/303, 510/304, 510/320, 510/321, 510/336, 510/337, 510/338, 510/438, 510/445, 510/449



## ABSTRACT:

This invention relates to laundry detergent products, such as heavy duty aqueous and/or non-aqueous and/or gelled liquid laundry detergents and granular and/or powder laundry detergents, which include one or more low density particles and one or more particulate solids, such as enzymes, bleaching agents, builders, chelants, alkalinity sources, anti-redeposition agents, catalysts, surfactants, and other detergent ingredients, and optionally one or more conventional cleaning adjunct materials.

16 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 13. Document ID: US 6489279 B2

L3: Entry 13 of 19

File: USPT

Dec 3, 2002

US-PAT-NO: 6489279

DOCUMENT-IDENTIFIER: US 6489279 B2

TITLE: Laundry and cleaning compositions containing xyloglucanase enzymes

DATE-ISSUED: December 3, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Convents; Andre Christian	Cincinnati	OH		
Moese; Rosa Laura	West Chester	OH		

US-CL-CURRENT: 510/226, 134/25.2, 435/209, 510/308, 510/309, 510/310, 510/392, 510/393, 510/530, 8/111, 8/137

## ABSTRACT:

Laundry or cleaning products comprising one or more enzymes exhibiting endoglucanase activity specific for xyloglucan, and methods for laundering fabrics and cleaning dishes and tableware with aqueous solutions containing an effective amount of one or more enzymes exhibiting endoglucanase activity specific for xyloglucan.

10 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 14. Document ID: US 6465410 B1

L3: Entry 14 of 19

File: USPT

Oct 15, 2002

US-PAT-NO: 6465410

DOCUMENT-IDENTIFIER: US 6465410 B1

TITLE: Laundry detergent and/or fabric care composition comprising a modified

antimicrobial protein

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bettiol; Jean-Luc Philippe	Brussels			BE
Smets; Johan	Lubbeek			BE
Boyer; Stanton Lane	Fairfield	OH		

US-CL-CURRENT: 510/392; 435/188, 435/68.1, 435/69.1, 435/7.1, 510/276, 510/305,  
510/312, 510/320, 510/374

ABSTRACT:

A modified protein which comprises a catalytically active amino acid sequence of an antimicrobial enzyme and/or an amino acid sequence of an antimicrobial peptide linked to an amino acid sequence comprising a cellulose binding domain (CBD), and laundry detergents and/or fabric care compositions comprising such modified protein for improved sanitization benefits, are provided by the present invention.

8 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RWC

☐ 15. Document ID: US 6348441 B1

L3: Entry 15 of 19

File: USPT

Feb 19, 2002

US-PAT-NO: 6348441

DOCUMENT-IDENTIFIER: US 6348441 B1

TITLE: Method of laundering soiled fabrics by non-aqueous detergent formulated to control dye transfer and sudsing in high efficiency washing machines

DATE-ISSUED: February 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aiken, III; John Davis	Cincinnati	OH		
Sampath; Murali	Cincinnati	OH		
Swift, II; Ronald Allen	West Chester	OH		

US-CL-CURRENT: 510/304; 510/276, 510/309, 510/312, 510/347, 510/360, 8/137

ABSTRACT:

Disclosed is a method of laundering soiled fabrics comprising the steps of contacting said fabric in an aqueous laundering solution with a nonaqueous liquid detergent composition containing from about 40% to about 99% by weight of the composition of a surfactant-containing non-aqueous liquid phase and from about 1% to about 50% by weight of the composition of particulate material which is substantially insoluble in said liquid phase and which is selected from peroxygen bleaching agents, bleach activators, organic detergent builders, inorganic alkalinity sources and combinations thereof. A dye transfer inhibitor and suds suppressors are essential components in

one aspect of the present invention. The detergent composition is added to the aqueous solution in a washing machine at a concentration in the aqueous solution of from 2000 ppm to about 10,000 ppm, wherein from about 3 gallons to about 8 gallons of water is used to form the aqueous solution, said fabric to water weight ratio is from about 1:1 to about 1:10 and said fabrics undergo a wash time of from about 6 minutes to about 34 minutes.

17 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 16. Document ID: US 6274565 B1

L3: Entry 16 of 19

File: USPT

Aug 14, 2001

US-PAT-NO: 6274565

DOCUMENT-IDENTIFIER: US 6274565 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Inhibitor of activation of .beta.-glucan recognition protein

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katsumi; Yoichi	Hyogo			JP

US-CL-CURRENT: 514/54; 424/193.1, 424/538, 435/18, 435/19, 435/201, 435/206, 435/207, 435/208, 435/23, 435/25, 435/4, 536/123.1, 536/123.12, 536/124, 536/55.1

ABSTRACT:

The present invention relates to an inhibitor of an activation of .beta.-glucan recognition protein in a body fluid of an insect comprising a sugar compound comprising plural member of sugar residues, at least one of which have a substituent at the 6-position, the sugar residues being bonded mainly through .beta. 1.fwdarw.3 linkage with one another, a process for inhibiting the activation; an agent for treating the body fluid of an insect, a process for the treatment; a novel agent for measuring peptidoglycan simply and effectively, and a process for the measurement.

The present invention is markedly effective in that a reagent, which are obtained form a body fluid of an insect, can easily be obtained.

13 Claims, 2 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 17. Document ID: US 6268197 B1

L3: Entry 17 of 19

File: USPT

Jul 31, 2001

US-PAT-NO: 6268197

DOCUMENT-IDENTIFIER: US 6268197 B1

TITLE: Xyloglucan-specific alkaline xyloglucanase from bacillus

DATE-ISSUED: July 31, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schulein; Martin	Copenhagen			DK
Outtrup; Helle	Ballerup			DK
Jorgensen; Per Lina	Copenhagen			DK
Bjornvad; Mads Eskelund	Frederiksberg			DK

US-CL-CURRENT: 435/209; 435/263, 510/320, 510/392, 510/530

## ABSTRACT:

A xyloglucanase having a relative xyloglucanase activity of at least 50% at pH 7 and either no or an insignificant cellulolytic activity is obtainable e.g. from a strain of Bacillus. A xyloglucanase comprising an amino acid sequence as shown in positions 30-261 of SEQ ID NO:2 or homologues may be derived from eg Bacillus licheniformis, ATCC 14580, and may be encoded by polynucleotide molecules comprising a nucleotide sequence as shown in SEQ ID NO:1 from nucleotide 88 to nucleotide 783; and a xyloglucanase comprising an amino acid sequence as shown in positions 1-537 of SEQ ID NO:4 or homologues may be derived from eg B. agaradhaerens, NCIMB 40482, and may be encoded by polynucleotide molecules comprising a nucleotide sequence as shown in SEQ ID NO:3 from nucleotide 1 to nucleotide 1611. The xyloglucanases are useful e.g. in cleaning compositions and for treatment of cellulosic fibres.

12 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 18. Document ID: KR 2002093612 A WO 2002101083 A1

L3: Entry 18 of 19

File: DWPI

Dec 16, 2002

DERWENT-ACC-NO: 2003-156970

DERWENT-WEEK: 200329

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TITLE: Composition for detecting a peptidoglycan, useful for detecting Gram negative bacterial infections, comprises extract of Galleria mellonella body fluid

INVENTOR: CHO, T H; EO, J H; JU, C H; KIM, H R; KIM, H S; KIM, M S; LEE, B R; PARK, B S; PARK, J W; PARK, Y S; SONG, S H; YEO, J M; YOON, J W; AUH, J; CHO, T; JOO, C; KIM, H; KIM, M; LEE, B; PARK, B; PARK, J; PARK, Y; SONG, S; YEO, J; YOON, J

PRIORITY-DATA: 2002KR-0031856 (June 7, 2002), 2001KR-0031890 (June 8, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 2002093612 A	December 16, 2002		000	C12Q001/26
WO 2002101083 A1	December 19, 2002	E	016	C12Q001/26

INT-CL (IPC): C12 Q 1/26ABSTRACTED-PUB-NO: WO2002101083A  
BASIC-ABSTRACT:

NOVELTY - A composition (I) for detecting a peptidoglycan, comprises the extract of an insect body fluid having a phenoloxidase activity on the peptidoglycan without the addition of calcium.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(1) detection of peptidoglycan, comprising adding (I) to a sample obtained from a test subject and measuring the phenoloxidase activity; and

(2) a detection kit for peptidoglycan comprising (I).

USE - (I) is useful for detecting a peptidoglycan (claimed), which can be used for detecting the infection of clinical samples e.g. blood, tissue and urine, with gram-positive bacteria such as Staphylococcus, Streptococcus, Pneumococcus and Corynebacterium diphtheriae. (I) is also useful for detecting gram-positive bacteria in animals or humans and can thus be useful in the prevention and treatment of food poisoning and bacterial sepsis.

ADVANTAGE - Prior art methods using the prophenoloxydase system of insects to detect peptidoglycans required the addition of calcium to activate a phenoloxidase system on peptidoglycan and also detected lipopolysaccharides and beta -1,3-glucan as well as peptidoglycan. (I) has a phenoloxidase activity on the peptidoglycan without the addition of calcium and also selectively detects peptidoglycan in small amounts of sample.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	K/M/C
Draw Desc	Image									

☐ 19. Document ID: JP 2003520043 W WO 200152905 A1 AU 200128914 A KR 2001076356 A US 20020197662 A1 EP 1274466 A1 CN 1406139 A

L3: Entry 19 of 19

File: DWPI

Jul 2, 2003

DERWENT-ACC-NO: 2001-457514  
DERWENT-WEEK: 200352  
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TITLE: New composition for detecting beta-1,3-glucan useful for early diagnosis of fungal and protozoal infections, e.g. in immuno-compromised cancer patients, organ transplant patients or AIDS patients, or in aquaculture industries

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PRIORITY-DATA: 2000KR-0002542 (January 20, 2000)

PATENT-FAMILY: :

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2003520043 W	July 2, 2003		034	C12Q001/26
WO 200152905 A1	July 26, 2001	E	039	A61K049/00
AU 200128914 A	July 31, 2001		000	A61K049/00
KR 2001076356 A	August 11, 2001		000	C12Q001/28
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EP 1274466 A1	January 15, 2003	E	000	A61K049/00
CN 1406139 A	March 26, 2003		000	A61K049/00

INT-CL (IPC): A61 K 35/64; A61 K 49/00; B01 D 15/08; B01 J 20/24; B01 J 20/26; C12 Q 1/26; C12 Q 1/28; G01 N 33/66

ABSTRACTED-PUB-NO: WO 200152905A  
BASIC-ABSTRACT:

NOVELTY - A new composition for detecting beta -1,3-glucan includes all or some components of the phenoloxidase system of insects and exhibits phenoloxidase activation by beta -1,3-glucan in the presence of calcium ions (which can also activate the phenoloxidase system in insects) enabling specific beta -1,3-glucan detection.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for detecting beta -1,3-glucan, by collecting a sample, adding the composition as above and measuring phenoloxidase activity.

USE - The composition is useful to diagnose infection by microorganisms having beta -1,3-glucan as a cell wall component, since it can specifically detect beta -1,3-glucan; kits are provided (claimed). It is especially useful to provide early diagnosis of infections by fungi such as Candida and/or protozoa such as Pneumocystis carinii in humans, especially in immuno-compromised patients e.g. immuno-compromised cancer patients, organ transplant patients and AIDS patients, in which diagnosis at an early stage of infection may enable mortality to be reduced by administration of antibiotics or antifungal drugs. The composition is also useful in aquaculture industries such as lobster, fish or clam breeding to provide early diagnosis of fungal infections to enable steps to be taken to reduce economic damage.

ADVANTAGE - The method enables earlier diagnosis of fungal infections than previous methods.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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Term	Documents
(1 NOT 2).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	19
(L1 NOT L2).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	19

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